Board Assembly Part Number(s)

Part Number	Description
157565B-01L or later	**cDAQ-9133 16GB, RT**
157565B-02L or later	**cDAQ-9133 16GB, WES7**
157565B-11L or later	**cDAQ-9135 32GB, RT**
157565B-12L or later	**cDAQ-9135 32GB, WES7**

Manufacturer: National Instruments

Volatile Memory

Type[i]	Size	User Accessible/ System Accessible[ii]	Battery Backup?	Purpose	Method of Clearing[iii]
(cDAQ-9133/9135)					
DDR3L-SDRAM	*2 GB*	*Yes/Yes*	*No*	*System Memory*	*Cycle Power*
SoC RTC RAM	*242 bytes*	*Yes/Yes*	*Yes*	*Battery Backed portion of RTC*	*Clear CMOS Button*
CPLD SDRAM	*51 Mb*	*No/Yes*	*No*	*CPLD Memory*	*Cycle Power*
Controller SRAM	*54 kB*	*Yes/Yes*	*No*	*Acquisition and Generation Data*	*Cycle Power*
Controller SRAM	*49 kB*	*No/Yes*	*No*	*Configuration & Control*	*Cycle Power*
(cDAQ-9135)					
XNET SDRAM	*512 Mb*	*Yes/No*	*No*	*Memory*	*Cycle Power*
XNET Controller SRAM	*54 kB*	*Yes/Yes*	*No*	*Acquisition and Generation Data*	*Cycle Power*
XNET Controller SRAM	*49 kB*	*No/Yes*	*No*	*Configuration & Control*	*Cycle Power*

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Non-Volatile Memory

Type	Size	User Accessible/ System Accessible	Battery Backup?	Purpose	Method of Clearing
(cDAQ-9133 RT)					
Flash	*16 GB*				
-Firmware		*No/No*	*No*	*Firmware*	*None available to user*
-OS		*No/Yes*	*No*	*Operating System*	*Format drive in MAX*
-User Disk		*Yes/Yes*	*No*	*User Data*	*Format drive in MAX*
(cDAQ-9133 Windows)					
Flash	*16 GB*	*Yes/Yes*	*No*	*Operating System*	*Format drive*
(cDAQ-9135 RT)					
Flash	*32 GB*				
-Firmware		*No/No*	*No*	*Firmware*	*None available to user*
-OS		*No/Yes*	*No*	*Operating System*	*Format drive in MAX*
-User Disk		*Yes/Yes*	*No*	*User Data*	*Format drive in MAX*
(cDAQ-9135 Windows)					
Flash	*32 GB*	*Yes/Yes*	*No*	*Operating System*	*Format drive*
(cDAQ-9135)					
XNET Flash	*32 Mb*				
-Boot firmware		*No/No*	*No*	*Firmware*	*None available to user*
-User firmware		*No/Yes*	*No*	*Firmware*	*None available to user*
XNET Controller Flash	*8 Mb*	*No/Yes*	*No*	*Firmware*	*None available to user*
(cDAQ-9133/9135)					
System BIOS	*8MB*	*No/Yes*	*No*	*BIOS firmware*	*BIOS update utility*
SPD EEPROM	*256 bytes*	*No/Yes*	*No*	*Describes DDR3L memory*	*None available to user*
CPLD	*0.47 Mb*	*No/Yes*	*No*	*General Logic*	*None available to user*
Ethernet Flash	*8 Mb*	*No/Yes*	*No*	*Firmware*	*None available to user*
Controller Flash	*8 Mb*	*No/Yes*	*No*	*Firmware*	*None available to user*

Media Storage

Type	Size	User Accessible/ System Accessible	Battery Backup?	Purpose	Method of Clearing
NONE					

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Clearing Notes

SoC RTC Ram: The Clear CMOS Button is located between slots 4 and 5. See the User Manual for more information on the Clear CMOS Button.

BIOS Firmware: You may use the appropriate version of the BIOS Update Utility to restore your BIOS to its original factory version.

Terms and Definitions

User Accessible Allows the user to directly write or modify the contents of the memory during normal instrument operation.

System Accessible Does not allow the user to access or modify the memory during normal instrument operation. However, system accessible memory may be accessed or modified by background processes. This can be something that is not deliberate by the user and can be a background driver implementation, such as storing application information in RAM to increase speed of use.

Cycle Power The process of completely removing power from the device and its components. This process includes a complete shutdown of the PC and/or chassis containing the device; a reboot is not sufficient for the completion of this process.

Volatile Memory Requires power to maintain the stored information. When power is removed from this memory, its contents are lost.

Non-Volatile Retains its contents when power is removed. This type of memory typically contains calibration or chip configuration information, such as power up states.

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[i] Calibration constants that are stored in device EEPROMs include information for the device's full operating range. Calibration constants do not maintain any unique data for specific configurations at which the device is used unless otherwise specified.

[ii] Items are designated **No** for the following reason(s):
a) Hardware changes or a unique software tool from National Instruments are required to modify contents of the memory listed.
b) Hardware-modifying software tools are not distributed to customers for any personal access or customization, also known as non-normal use.

[iii] The designation *None Available to User* indicates that the ability to clear this memory is not available to the user under normal operation. The utilities required to clear the memory are not distributed by National Instruments to customers for normal use.

EDITION DATE January 2015
NI PART NUMBER 375066A-01

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